

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/03166

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61M39/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 904 245 A (CHEN ET AL.) 27 February 1990 (1990-02-27) the whole document	1-30
X	US 4 821 996 A (PELUSO ET AL.) 18 April 1989 (1989-04-18)	1, 29, 30
A	column 2, line 26 -column 3, line 39; figures 1, A, B, 3, 1A-13	2-28
X	US 6 135 153 A (BRACK LEGAL REPRESENTATIVE BY ET AL) 24 October 2000 (2000-10-24) figures 1, 7-13	1, 29, 30
A	EP 1 106 191 A (JMS CO LTD) 13 June 2001 (2001-06-13) figures 2, 3, 9-11	1-16, 29, 30
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

24 November 2003

Date of mailing of the international search report

02/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Michels, N

INTERNATIONAL SEARCH REPORT

Intern. Application No.

PCT/IB 03/03166

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 104 387 A (KRAMLINGER ET AL.) 14 April 1992 (1992-04-14) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/03166

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4904245	A	27-02-1990	NONE	
US 4821996	A	18-04-1989	NONE	
US 6135153	A	24-10-2000	NONE	
EP 1106191	A	13-06-2001	JP 11128343 A CA 2341194 A1 EP 1106191 A1 US 6589197 B1 WO 0010626 A1	18-05-1999 02-03-2000 13-06-2001 08-07-2003 02-03-2000
US 5104387	A	14-04-1992	AU 7993791 A WO 9118632 A1	31-12-1991 12-12-1991